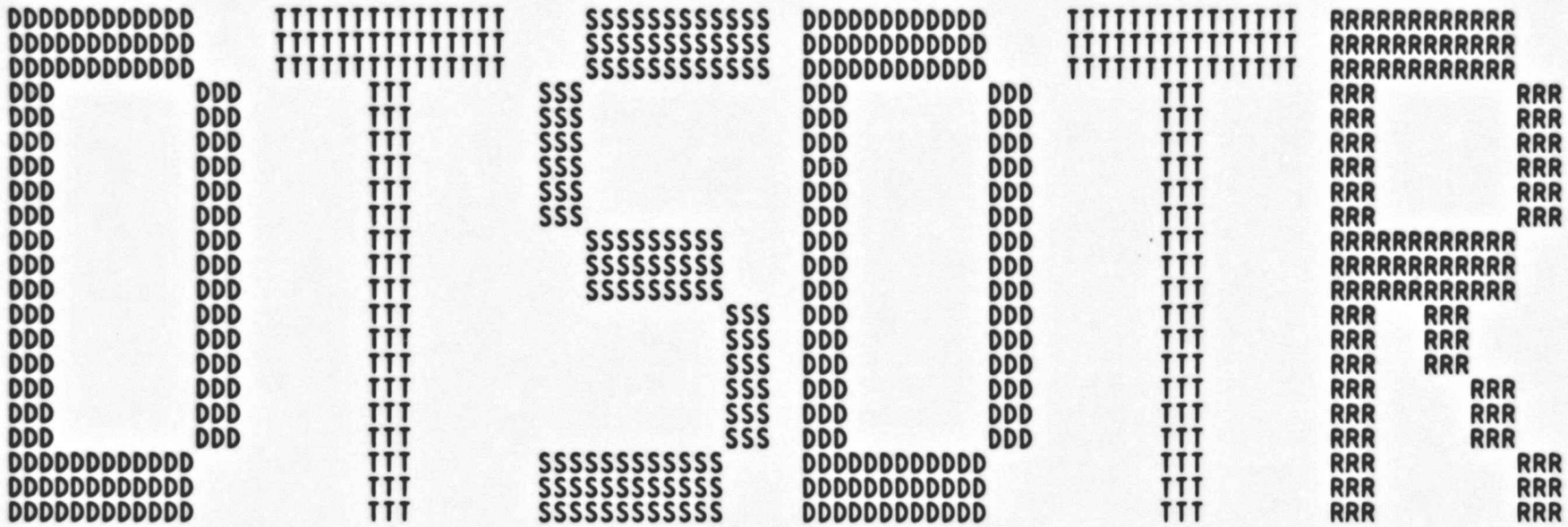
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR

```
DDDDDDDD    TTTTTTTTTT  RRRRRRRR      AAAAAA      SSSSSSSS  TTTTTTTTTT
DDDDDDDD    TTTTTTTTTT  RRRRRRRR      AAAAAA      SSSSSSSS  TTTTTTTTTT
DD      DD      TT      RR      RR   AA    AA   SS              TT
DD      DD      TT      RR      RR   AA    AA   SS              TT
DD      DD      TT      RR      RR   AA    AA   SS              TT
DD      DD      TT      RR      RR   AA    AA   SS              TT
DD      DD      TT      RRRRRRRR     AA    AA     SSSSSS        TT
DD      DD      TT      RRRRRRRR     AA    AA     SSSSSS        TT
DD      DD      TT      RR   RR      AAAAAAAAAA           SS    TT
DD      DD      TT      RR   RR      AAAAAAAAAA           SS    TT
DD      DD      TT      RR    RR     AA    AA             SS    TT          ....
DD      DD      TT      RR    RR     AA    AA             SS    TT          ....
DDDDDDDD        TT      RR      RR   AA    AA   SSSSSSSS        TT          ....
DDDDDDDD        TT      RR      RR   AA    AA   SSSSSSSS        TT          ....


LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

Table of contents

(2) 42 DECLARATIONS
(3) 65 TST$RECVAST_DTR - RECEIVE DATA MESSAGE AST ROUTINE
(4) 142 TST$XMITAST_DTR - TRANSMIT DATA MESSAGE AST ROUTINE
(5) 186 TST$MAILAST_DTR - READ MAILBOX AST ROUTINE
(6) 270 TST$INTEAST_DTR - TRANSMIT INTERRUPT MESSAGE AST ROUTINE

```
0000     1          .TITLE  TST$DTRAST - DTR AST ROUTINES
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;**********************************************************************************
0000     6  ;*                                                                                *
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0000    24  ;*                                                                                *
0000    25  ;*                                                                                *
0000    26  ;**********************************************************************************
0000    27  ;
0000    28
0000    29  ;++
0000    30  ; FACILITY: DTS/DTR DECNET TEST PACKAGE
0000    31  ;
0000    32  ; ABSTRACT: THIS MODULE CONTAINS QIO AND TIMER AST ROUTINES FOR DTR.
0000    33  ;
0000    34  ; ENVIRONMENT: DTR RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000    35  ;
0000    36  ; AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 7-DEC-77
0000    37  ;
0000    38  ; MODIFICATIONS:
0000    39  ;
0000    40  ;--
```

```
0000     42          .SBTTL  DECLARATIONS
0000     43
0000     44 ;
0000     45 ; INCLUDE FILES:
0000     46 ;
0000     47          $DTSDEF
0000     48          CMDDEF                              ; DEFINE COMMAND LANGUAGE SYMBOLS
0000     49          EFNDEF                              ; DEFINE EFN'S AND FUNCTION CODES
0000     50          $MSGDEF                             ; DEFINE MAILBOX MESSAGE ID CODES
0000     51          .IIF NE K_LIST_MEB, .LIST MEB       ; DEFINED IN DTPREFIX.MAR
0000     52 ;
0000     53 ; MACROS:
0000     54 ;
0000     55 ;        NONE
0000     56 ;
0000     57 ; EQUATED SYMBOLS:
0000     58 ;
0000     59 ;        NONE
0000     60 ;
0000     61 ; OWN STORAGE:
0000     62 ;
0000     63 ;        NONE
```

```
                     65          .SBTTL  TST$RECVAST_DTR - RECEIVE DATA MESSAGE AST ROUTINE
00000000             66          .PSECT  TST$CODE        NOWRT
                     67 RA::                                     ; SYMBOL FOR DEBUGGING PURPOSES
                     68
                     69 ;++
                     70 ; FUNCTIONAL DESCRIPTION:
                     71 ;
                     72 ;       NONE
                     73 ;
                     74 ; CALLING SEQUENCE:
                     75 ;
                     76 ;       CALL    #5,TST$RECVAST_DTR      (INVOKED BY VAX/VMS AS AN AST)
                     77 ;
                     78 ; INPUT PARAMETERS:
                     79 ;
                     80 ;       4(AP)   ADDRESS OF QIO PARAMETER BLOCK
                     81 ;
                     82 ; IMPLICIT INPUTS:
                     83 ;
                     84 ;       NONE
                     85 ;
                     86 ; OUTPUT PARAMETERS:
                     87 ;
                     88 ;       NONE
                     89 ;
                     90 ; IMPLICIT OUTPUTS:
                     91 ;
                     92 ;       NONE
                     93 ;
                     94 ; COMPLETION CODES:
                     95 ;
                     96 ;       NONE
                     97 ;
                     98 ; SIDE EFFECTS:
                     99 ;
                    100 ;       NONE
                    101 ;
                    102 ;--
                    103
                003C 104          .ENTRY  TST$RECVAST_DTR,^M<R2,R3,R4,R5> ; ENTRY POINT
                0002 105          CHECK_IOSB W^TST$GQ_RECVIOSB    ; CHECK I/O STATUS CODE
          5B 51  E9 000A 106          BLBC    R1,40$                  ; BRANCH ON FAILURE
      0000'CF    D6 000D 107          INCL    W^TST$GL_RECVDATA       ; INCREMENT COUNTER
                0011 108          $CASEB  SELECTOR=W^TST$GB_TYPE,DISPL=<- ;
                0011 109                  30$-                    ;  NO ACTION REQUIRED
                0011 110                  20$-                    ;  SEQUENCE CHECK
                0011 111                  10$-                    ;  SEQUENCE AND PATTERN CHECK
                0011 112          >                               ;  ECHO MESSAGE
      0000'CF    D6 001D 113          INCL    W^TST$GB_XMITBUF        ; UDPATE MESSAGE SEQUENCE NUMBER
      0002'CF    3C 0021 114          MOVZWL  W^TST$GQ_RECVIOSB+2,-
      0000'CF       0025 115                  W^TST$QBR_XMTDATA+TST$QB_BUFLEN;SET SIZE TO ECHO
      0000'CF    0E 0028 116          INSQUE  W^TST$QBR_XMTDATA,-
      0004'DF       002C 117                  @W^TST$QB_QHEAD+4       ;QUEUE XMT REQUEST
            1B   11 002F 118          BRB     30$                     ; JOIN COMMON CODE
   50 0000'CF    3C 0031 119 10$:     MOVZWL  W^TST$GW_SIZE,R0        ; GET MESSAGE SIZE
      50    04   C2 0036 120          SUBL2   #4,R0                   ; CALCULATE SIZE LESS SEQUENCE #
0004'CF 50    29 0039 121          CMPC3   R0,W^TST$GB_XMITBUF+4,- ; COMPARE EXPECTED PATTERN
```

```
                 0004'CF        003E  122                    W^TST$GB_RECVBUF+4      ;  AGAINST ACTUAL PATTERN
                      26  12    0041  123                BNEQ    RECVAST_ERROR2          ; BRANCH ON PATTERN ERROR
                 0000'CF  D1    0043  124 20$:          CMPL    W^TST$GL_RECVDATA,-     ; COMPARE EXPECTED SEQUENCE #
                 0000'CF        0047  125                        W^TST$GB_RECVBUF        ;  AGAINST ACTUAL SEQUENCE #
                      27  12    004A  126                BNEQ    RECVAST_ERROR1          ; BRANCH ON SEQUENCE ERROR
                             004C  127 30$:
                 0000'CF  3C    004C  128                MOVZWL  W^TST$GW_SIZE,-
                 0000'CF        0050  129                        W^TST$QBR_RCVDATA+TST$QB_BUFLEN ;SAVE SIZE OF READ
                 0000'CF  0E    0053  130                INSQUE  W^TST$QBR_RCVDATA,-
                 0004'DF        0057  131                        @W^TST$QB_QHEAD+4               ;QUEUE NEW READ
                             005A  132                $WAKE_S                         ;WAKE USER LEVEL
                             0065  133                CHECK_SS                        ; CHECK STATUS CODE
                      04     0068  134 40$:           RET                             ; EXIT
                             0069  135 RECVAST_ERROR2:                               ; PATTERN CHECK ERROR
0000'CF  01F58043 8F   D0    0069  136                MOVL    #DTS$_BADPAT,W^TST$GL_STATUS
                      04     0072  137                RET                             ; EXIT
                             0073  138 RECVAST_ERROR1:                               ; SEQUENCE CHECK ERROR
0000'CF  01F5804B 8F   D0    0073  139                MOVL    #DTS$_BADSEQNUM,W^TST$GL_STATUS
                      04     007C  140                RET                             ; EXIT
```

```
                     007D   142          .SBTTL  TST$XMITAST_DTR - TRANSMIT DATA MESSAGE AST ROUTINE
                0000007D    143          .PSECT  TST$CODE        NOWRT
                     007D   144
                     007D   145 ;++
                     007D   146 ; FUNCTIONAL DESCRIPTION:
                     007D   147 ;
                     007D   148 ;       NONE
                     007D   149 ;
                     007D   150 ; CALLING SEQUENCE:
                     007D   151 ;
                     007D   152 ;       CALL    #5,TST$XMITAST_DTR      (INVOKED BY VAX/VMS AS AN AST)
                     007D   153 ;
                     007D   154 ; INPUT PARAMETERS:
                     007D   155 ;
                     007D   156 ;       4(AP)   ADDRESS OF QIO PARAMETER BLOCK
                     007D   157 ;
                     007D   158 ; IMPLICIT INPUTS:
                     007D   159 ;
                     007D   160 ;       NONE
                     007D   161 ;
                     007D   162 ; OUTPUT PARAMETERS:
                     007D   163 ;
                     007D   164 ;       NONE
                     007D   165 ;
                     007D   166 ; IMPLICIT OUTPUTS:
                     007D   167 ;
                     007D   168 ;       NONE
                     007D   169 ;
                     007D   170 ; COMPLETION CODES:
                     007D   171 ;
                     007D   172 ;       NONE
                     007D   173 ;
                     007D   174 ; SIDE EFFECTS:
                     007D   175 ;
                     007D   176 ;       NONE
                     007D   177 ;
                     007D   178 ;--
                     007D   179
             0004    007D   180          .ENTRY  TST$XMITAST_DTR,^M<R2>  ; ENTRY POINT
                     007F   181          CHECK_IOSB W^TST$GQ_XMITIOSB    ; CHECK I/O STATUS CODE
   04 51      E9     0087   182          BLBC    R1,10$                  ; BRANCH ON FAILURE
0000'CF       D6     008A   183          INCL    W^TST$GL_XMITDATA       ; INCREMENT COUNTER
             04     008E   184 10$:     RET                             ; EXIT
```

```
                                        .SBTTL  TST$MAILAST_DTR - READ MAILBOX AST ROUTINE
                                        .PSECT  TST$CODE        NOWRT

                                ;++
                                ; FUNCTIONAL DESCRIPTION:
                                ;
                                ;       NONE
                                ;
                                ; CALLING SEQUENCE:
                                ;
                                ;       CALL    #5,TST$MAILAST_DTR      (INVOKED BY VAX/VMS AS AN AST)
                                ;
                                ; INPUT PARAMETERS:
                                ;
                                ;       4(AP)   ADDRESS OF QIO PARAMETER BLOCK
                                ;
                                ; IMPLICIT INPUTS:
                                ;
                                ;       NONE
                                ;
                                ; OUTPUT PARAMETERS:
                                ;
                                ;       NONE
                                ;
                                ; IMPLICIT OUTPUTS:
                                ;
                                ;       NONE
                                ;
                                ; COMPLETION CODES:
                                ;
                                ;       NONE
                                ;
                                ; SIDE EFFECTS:
                                ;
                                ;       NONE
                                ;
                                ;--

                        00FC    .ENTRY  TST$MAILAST_DTR,^M<R2,R3,R4,R5,R6,R7> ; ENTRY POINT
            FF6C'       30      BSBW    TST$EXAM_MAIL           ; EXAMINE THE MESSAGE
        35      56      B1      CMPW    R6,#MSG$_INTMSG         ; IS IT AN INTERRUPT MESSAGE?
                58      12      BNEQU   NOT_INTE_MSG            ; NO
            0000'CF     D6      INCL    W^TST$GL_RECVINTE       ; YES, INCREMENT COUNTER
                                $CASEB  SELECTOR=W^TST$GB_TYPE,DISPL=<- ;
                                30$-                            ;  NO ACTION REQUIRED
                                20$-                            ;  SEQUENCE CHECK
                                10$-                            ;  SEQUENCE AND PATTERN CHECK
                                >                               ;  ECHO MESSAGE
            0000'CF     D6      INCL    W^TST$GB_INTEBUF        ; UDPATE MESSAGE SEQUENCE NUMBER
    0000'CF     67      9A      MOVZBL  (R7),W^TST$QBR_XMTINT+-
                                TST$QB_BUFLEN           ;SAVE SIZE OF INTERRUPT MESSAGE
            0000'CF     0E      INSQUE  W^TST$QBR_XMTINT,-
            0004'DF             @W^TST$QB_QHEAD+4               ;QUEUE UP INTERRUPT XMT REQUEST
                17      11      BRB     30$                     ; JOIN COMMON CODE
        50      67      9A      MOVZBL  (R7),R0                 ; GET INTERRUPT MESSAGE SIZE
        50      04      C2      SUBL2   #4,R0                   ; CALCULATE SIZE LESS SEQUENCE #
    0004'CF     50      29      CMPC3   R0,W^TST$GB_INTEBUF+4,- ; COMPARE EXPECTED PATTERN
```

```
                05 A7          00C6   243                  5(R7)                           ;  AGAINST ACTUAL PATTERN
                   49    12     00C8   244                  BNEQ    MAILAST_ERROR2          ; BRANCH ON PATTERN ERROR
            0000'CF    D1     00CA   245 20$:         CMPL    W^TST$GL_RECVINTE,-             ; COMPARE EXPECTED SEQUENCE #
                01 A7          00CE   246                  1(R7)                           ;  AGAINST ACTUAL SEQUENCE #
                   4B    12     00D0   247                  BNEQ    MAILAST_ERROR1          ; BRANCH ON SEQUENCE ERROR
                                 00D2   248 30$:
        00000000'8F    D0     00D2   249                  MOVL    #TST$K_MAILBUF,-
            0000'CF           00D8   250                  W^TST$QBR_RCVMAIL+TST$QB_BUFLEN ;SET READ SIZE
            0000'CF    0E     00DB   251                  INSQUE  W^TST$QBR_RCVMAIL,-
            0004'DF           00DF   252                  @W^TST$QB_QHEAD+4                       ;QUEUE MAILBOX READ
                              00E2   253                  $WAKE_S                         ;WAKE USER LEVEL
                              00ED   254                  CHECK_SS                        ; CHECK STATUS CODE
                   04         00F0   255                  RET                             ; EXIT
                              00F1   256 NOT_INTE_MSG:                                   ;
                              00F1   257                  $CANCEL_S CHAN=W^TST$GW_LINKCHAN ; CANCEL ALL PENDING LINK I/O REQUESTS
                              00FD   258                  CHECK_SS                        ; CHECK STATUS CODE
            0000'CF    96     0100   259                  INCB    W^TST$GB_ASTFLAGS       ;NOTE END OF TEST
                              0104   260                  $WAKE_S                         ;WAKE USER LEVEL
                              010F   261                  CHECK_SS                        ; CHECK STATUS CODE
                   04         0112   262                  RET                             ; EXIT
                              0113   263 MAILAST_ERROR2:                                 ; PATTERN CHECK ERROR
    0000'CF    01F58043 8F    D0     0113   264                  MOVL    #DTS$_BADPAT,W^TST$GL_STATUS
                   04         011C   265                  RET                             ; EXIT
                              011D   266 MAILAST_ERROR1:                                 ; SEQUENCE CHECK ERROR
    0000'CF    01F5804B 8F    D0     011D   267                  MOVL    #DTS$_BADSEQNUM,W^TST$GL_STATUS
                   04         0126   268                  RET                             ; EXIT
```

```
                                                E 16
                                                                                                                                
                     0127   270          .SBTTL  TST$INTEAST_DTR - TRANSMIT INTERRUPT MESSAGE AST ROUTINE
                00000127   271          .PSECT  TST$CODE        NOWRT
                     0127   272
                     0127   273 ;++
                     0127   274 ; FUNCTIONAL DESCRIPTION:
                     0127   275 ;
                     0127   276 ;       NONE
                     0127   277 ;
                     0127   278 ; CALLING SEQUENCE:
                     0127   279 ;
                     0127   280 ;       CALL    #5,TST$INTEAST_DTR      (INVOKED BY VAX/VMS AS AN AST)
                     0127   281 ;
                     0127   282 ; INPUT PARAMETERS:
                     0127   283 ;
                     0127   284 ;       4(AP)   ADDRESS OF QIO PARAMETER BLOCK
                     0127   285 ;
                     0127   286 ; IMPLICIT INPUTS:
                     0127   287 ;
                     0127   288 ;       NONE
                     0127   289 ;
                     0127   290 ; OUTPUT PARAMETERS:
                     0127   291 ;
                     0127   292 ;       NONE
                     0127   293 ;
                     0127   294 ; IMPLICIT OUTPUTS:
                     0127   295 ;
                     0127   296 ;       NONE
                     0127   297 ;
                     0127   298 ; COMPLETION CODES:
                     0127   299 ;
                     0127   300 ;       NONE
                     0127   301 ;
                     0127   302 ; SIDE EFFECTS:
                     0127   303 ;
                     0127   304 ;       NONE
                     0127   305 ;
                     0127   306 ;--
                     0127   307
                0004 0127   308          .ENTRY  TST$INTEAST_DTR,^M<R2>  ; ENTRY POINT
          0000'8F    B1 0129   309          CMPW    #SS$_NOSOLICIT,-
00000000'EF                 012D   310                  TST$GQ_INTEIOSB         ;CHECK FOR REFUSAL DUE TO NO SOLICIT
               16   12 0132   311          BNEQU   5$                      ;SKIP IF NOT THE CASE
          0000'CF   0E 0134   312          INSQUE  W^TST$QBR_XMTINT,-
          0004'DF         0138   313                  @W^TST$QB_QHEAD+4       ;REQUEUE REQUEST
                     013B   314          $WAKE_S                         ;TELL MAINLINE ABOUT IT
                     0146   315          CHECK_SS
                     04 0149   316          RET
                     014A   317 5$:
                     014A   318          CHECK_IOSB W^TST$GQ_INTEIOSB    ; CHECK I/O STATUS CODE
            04 51    E9 0152   319          BLBC    R1,10$                  ; BRANCH ON FAILURE
          0000'CF    D6 0155   320          INCL    W^TST$GL_XMITINTE       ; INCREMENT COUNTER
                     04 0159   321 10$:     RET                             ; EXIT
                     015A   322          .END
```

```
$$COUNT          = 00000003
DTS$_BADPAT      = 01F58043
DTS$_BADSEQNUM   = 01F5804B
K_LIST_MEB       = 00000000
MAILAST_ERROR1     0000011D R      02
MAILAST_ERROR2     00000113 R      02
MSG$_INTMSG      = 00000035
NOT_INTE_MSG       000000F1 R      02
RA                 00000000 RG     02
RECVAST_ERROR1     00000073 R      02
RECVAST_ERROR2     00000069 R      02
SS$_NOSOLICIT      ********   X    02
SYS$CANCEL         ********  GX    02
SYS$WAKE           ********  GX    02
TST$CHECK_IOSB     ********   X    02
TST$CHECK_SS       ********   X    02
TST$EXAM_MAIL      ********   X    02
TST$GB_ASTFLAGS    ********   X    02
TST$GB_INTEBUF     ********   X    02
TST$GB_RECVBUF     ********   X    02
TST$GB_TYPE        ********   X    02
TST$GB_XMITBUF     ********   X    02
TST$GL_RECVDATA    ********   X    02
TST$GL_RECVINTE    ********   X    02
TST$GL_STATUS      ********   X    02
TST$GL_XMITDATA    ********   X    02
TST$GL_XMITINTE    ********   X    02
TST$GQ_INTEIOSB    ********   X    02
TST$GQ_RECVIOSB    ********   X    02
TST$GQ_XMITIOSB    ********   X    02
TST$GW_LINKCHAN    ********   X    02
TST$GW_SIZE        ********   X    02
TST$INTEAST_DTR    00000127 RG     02
TST$K_MAILBUF      ********    X   02
TST$MAILAST_DTR    0000008F RG     02
TST$QBR_RCVDATA    ********    X   02
TST$QBR_RCVMAIL    ********    X   02
TST$QBR_XMTDATA    ********    X   02
TST$QBR_XMTINT     ********    X   02
TST$QB_BUFLEN      ********    X   02
TST$QB_QHEAD       ********    X   02
TST$RECVAST_DTR    00000000 RG     02
TST$XMITAST_DTR    0000007D RG     02
VAL_K_BACK_NO    = 00000000
VAL_K_DISP_NO    = 00000000
VAL_K_FLOW_MESS= 00000002
VAL_K_NAK_NO     = 00000000
VAL_K_PRIN_NO    = 00000000
VAL_K_RETU_NO    = 00000000
VAL_K_STAT_YES = 00000001
VAL_K_TYPE_ABRT= 00000001
VAL_K_TYPE_ACCE= 00000001
VAL_K_TYPE_NAME= 00000000
VAL_K_TYPE_SINK= 00000000
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST$CODE	0000015A (346.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:00.82
Command processing	104	00:00:00.55	00:00:02.81
Pass 1	201	00:00:04.71	00:00:15.61
Symbol table sort	0	00:00:00.20	00:00:00.28
Pass 2	74	00:00:01.22	00:00:04.12
Symbol table output	6	00:00:00.05	00:00:00.06
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	418	00:00:06.81	00:00:23.72

The working set limit was 1050 pages.
20707 bytes (41 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 195 non-local and 12 local symbols.
384 source lines were read in Pass 1, producing 28 object records in Pass 2.
25 pages of virtual memory were used to define 21 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[DTSDTR.OBJ]DTSDTR.MLB;1	7
_255DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	15

307 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

```
MACRO/LIS=LIS$:DTRAST/OBJ=OBJ$:DTRAST MSRC$:DTPREFIX/UPDATE=(ENH$:DTPREFIX)+MSRC$:DTRAST/UPDATE=(ENH$:DTRAST)
```

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DTCOMMON
LIS

DTRECV
MAP

DTSEND
MAP

DTMACROS
MAR